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<110> OriGene Technologies, Inc.

<120> Human Tbx20 Gene and Uses

<130> 18U 101 R1

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<170> PatentIn version 3.0

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Thr Ile Lys Pro Leu Glu Gln Phe Val Glu Lys Ser Ser Cys Ala Gln
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ccc ctg ggt gag ctg acc agc ctg gat gct cat ggg gag ttt ggt gga     668
Pro Leu Gly Glu Leu Thr Ser Leu Asp Ala His Gly Glu Phe Gly Gly
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Gly Ser Gly Ser Ser Pro Ser Ser Ser Ser Leu Cys Thr Glu Pro Leu
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Ile Pro Thr Thr Pro Ile Ile Pro Ser Glu Glu Met Ala Lys Ile Ala
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Cys Ser Leu Glu Thr Lys Glu Leu Trp Asp Lys Phe His Glu Leu Gly
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acc gag atg atc atc acc aag tcg ggc agg agg atg ttt cca acc atc     860
Thr Glu Met Ile Ile Thr Lys Ser Gly Arg Arg Met Phe Pro Thr Ile
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agg ctc tat gtg cat cca gat tct cct ttt acc ggt gag caa cta ctc      1052
Arg Leu Tyr Val His Pro Asp Ser Pro Phe Thr Gly Glu Gln Leu Leu
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Lys Gln Met Val Ser Phe Glu Lys Val Lys Leu Thr Asn Asn Glu Leu
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Asp Gln His Gly His Ile Ile Leu Asn Ser Met His Lys Tyr Gln Pro
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Arg Val His Ile Ile Lys Lys Lys Asp His Thr Ala Ser Leu Leu Asn
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Leu Lys Ser Glu Glu Phe Arg Thr Phe Ile Phe Pro Glu Thr Val Phe
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Ser Ile Ala Thr Pro Ile Pro His Pro Ile Gln Gly Ser Leu Pro Pro
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His His Tyr Phe Gln Gln Gly Pro Tyr Ala Ala Ile Gln Gly Leu Arg
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Glu Ala Thr Glu Asn Thr Ile Lys Pro Leu Glu Gln Phe Val Glu Lys
            35                  40                  45

Ser Ser Cys Ala Gln Pro Leu Gly Glu Leu Thr Ser Leu Asp Ala His
    50                  55                  60

Gly Glu Phe Gly Gly Gly Ser Gly Ser Ser Pro Ser Ser Ser Ser Leu
65                  70                  75                  80

Cys Thr Glu Pro Leu Ile Pro Thr Thr Pro Ile Ile Pro Ser Glu Glu
                85                  90                  95

Met Ala Lys Ile Ala Cys Ser Leu Glu Thr Lys Glu Leu Trp Asp Lys
                100                 105                 110

Phe His Glu Leu Gly Thr Glu Met Ile Ile Thr Lys Ser Gly Arg Arg
            115                 120                 125

Met Phe Pro Thr Ile Arg Val Ser Phe Ser Gly Val Asp Pro Glu Ala
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Lys Tyr Ile Val Leu Met Asp Ile Val Pro Val Asp Asn Lys Arg Tyr
145                 150                 155                 160

Arg Tyr Ala Tyr His Arg Ser Ser Trp Leu Val Ala Gly Lys Ala Asp
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Pro Pro Leu Pro Ala Arg Leu Tyr Val His Pro Asp Ser Pro Phe Thr
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His Lys Tyr Gln Pro Arg Val His Ile Ile Lys Lys Lys Asp His Thr
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Ala Ser Leu Leu Asn Leu Lys Ser Glu Glu Phe Arg Thr Phe Ile Phe
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Pro Glu Thr Val Phe Thr Ala Val Thr Ala Tyr Gln Asn Gln Leu Ile
            260             265             270

Thr Lys Leu Lys Ile Asp Ser Asn Pro Phe Ala Lys Gly Phe Arg Asp
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Ser Ser Arg Leu Thr Asp Ile Glu Arg Glu Ser Val Glu Ser Leu Ile
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Gln Lys His Ser Tyr Ala Arg Ser Pro Ile Arg Thr Tyr Gly Gly Glu
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Glu Asp Val Leu Gly Asp Glu Ser Gln Thr Thr Pro Asn Arg Gly Ser
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Ala Phe Thr Thr Ser Asp Asn Leu Ser Leu Ser Ser Trp Val Ser Ser
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Ser Ser Ser Phe Pro Gly Phe Gln His Pro Gln Ser Leu Thr Ala Leu
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Gly Thr Ser Thr Ala Ser Ile Ala Thr Pro Ile Pro His Pro Ile Gln
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Gly Ser Leu Pro Pro Tyr Ser Arg Leu Gly Met Pro Leu Thr Pro Ser
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Ala Ile Ala Ser Ser Met Gln Gly Ser Gly Pro Thr Phe Pro Ser Phe
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            50              55              60
Ala Glu Phe Gly Gly Gly Gly Gly Ser Pro Ser Ser Ser Ser Leu Cys
65                  70              75                      80
Thr Glu Pro Leu Ile Pro Thr Thr Pro Ile Ile Pro Ser Glu Glu Met
                85              90                      95
Ala Lys Ile Ala Cys Ser Leu Glu Thr Lys Glu Leu Trp Asp Lys Phe
                100             105             110
His Glu Leu Gly Thr Glu Met Ile Ile Thr Lys Ser Gly Arg Arg Met
            115             120             125
Phe Pro Thr Ile Arg Val Ser Phe Ser Gly Val Asp Pro Glu Ser Lys
        130             135             140
Tyr Ile Val Leu Met Asp Ile Val Pro Val Asp Asn Lys Arg Tyr Arg
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Tyr Ala Tyr His Arg Ser Ser Trp Leu Val Ala Gly Lys Ala Asp Pro
                165             170             175
Pro Leu Pro Ala Arg Leu Tyr Val His Pro Asp Ser Pro Phe Thr Gly
            180             185             190
Glu Gln Leu Leu Lys Gln Met Val Ser Phe Glu Lys Val Lys Leu Thr
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Lys Gly Phe Arg Asp Ser Ser Arg Leu Thr Asp Ile Glu Arg Glu Ser
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Val Glu Ser Leu Ile Gln Lys His Ser Tyr Ala Arg Ser Pro Ile Arg
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Thr Tyr Gly Glu Glu Asp Val Leu Gly Glu Glu Ser Gln Thr Thr Gln
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Ser Arg Gly Ser Ala Phe Thr Thr Ser Asp Asn Leu Ser Leu Ser Ser
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His Pro Ile Gln Gly Ser Leu Pro Pro Tyr Ser Arg Leu Gly Met Pro
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Leu Thr Pro Ser Ala Ile Ala Ser Ser Met Gln Gly Ser Gly Pro Thr
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Phe Pro Ser Phe His Met Pro Arg Tyr His His Tyr Phe Gln Gln Gly
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Pro Tyr Ala Ala Ile Gln Gly Leu Arg His Ser Ser Ala Val Met Thr
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Pro Phe Val
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